

Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	27 October 2022
Team ID	PNT2022TMID54268
Project Name	Project – IOT-Based Safety Gadget for Child Safety Monitoring and Notification
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation(4 Marks)

Use the below template to create a product backlog and sprint schedule

Sprint	Functional Requirement(Epic)	User Story Number	User Story/Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering email, password, and assuring the same password.	4	High	VARSHA.AJ
Sprint-1	Confirmation of Email	USN-2	As a user, I will receive a confirmation email once I have registered for the application	4	High	MOGHANAPRIYA
Sprint-1	Authentication	USN-3	As a user, I can register for the application through Gmail and mobile app.	4	Medium	HARIKRISHNAN
Sprint-1	Login	USN-4	As a user, I can log into the application by entering mail id & password	4	High	PAVITHRA
Sprint-1	Dashboard	USN-5	As a user, I need to enable the view the functions that I can perform	4	High	KEERTHANA
Sprint-2	Notification	USN-1	As a user, I should be able to notify my parent and guardian in emergency situations	10	High	VARSHA.AJ
Sprint-2	Stored data	USN-2	As a user, I need to continuously store my location data into the database.	10	Medium	MOGHANAPRIYA
Sprint-3	Communication	USN-3,1	I should be able to communicate with my parents	6	Low	VARSHA.AJ, HARIKRISHNAN

Sprint	Functional Requirement(Epic)	User Story Number	User Story/Task	StoryPoints	Priority	Team Members
Sprint-3	IoT Device – Watson communication	USN-1,4	The data from IoT device should reach IBM Cloud	7	Medium	VARSHA.AJ, PAVITHRA
Sprint-3	Node RED- Cloudant DB communication	USN-5,2	The data stored in IBM Cloud should be properly integrated with Cloudant DB	7	High	KEERTHANA, MOGHANAPRIYA
Sprint-4	User – Web UI interface	USN-1,4	The Web UI should get inputs from the user	6	High	VARSHA.AJ, PAVITHRA
Sprint-4	Geofencing	USN-2,3,5	The geofencing of the child should be done based on the geographical coordinates	7	High	MOGHANAPRIYA, HARIKRISHNAN, KEERTHANA

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct2022	08 Nov 2022	20	08 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	14 Nov 2022	20	14 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{10} = 2$$

Burndown Chart:

H	I	J	K	L	M	N
	Burndown Chart					
	Team Member	User Name	Oct-29	Nov-08	Nov-14	Nov-19
			Day 1	Day 2	Day 3	Day 4
	1	VARSHA.AJ	5	5	5	5
	2	MOGHANAPRIYA	4	4	4	4
	3	HARIKRISHNAN	3	3	3	3
	4	PAVITHRA	2	2	2	2
	5	KEERTHANA	1	1	1	1

